IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, a list of all claims is included below.

1.   (Currently Amended) A method, comprising measuring packet round trip times within a communication network; organizing numbers of occurrences of the packet round trip time measurements as an invariant distribution; applying an analytical tool to the invariant distribution to derive a plot exhibiting periodic peaks; and extracting information from the periodic peaks regarding congestion conditions within the network, wherein the extracting the information regarding the congestion conditions includes determining a bandwidth of one or more communication links from the periodic peaks.

2 – 3   (Canceled)

4.   (Previously Presented) The method of claim 1 wherein the analytical tool is selected from the list comprising a Fourier transform and a wavelet transform.

5.   (Previously Presented) The method of claim 1 wherein extraction of information regarding congestion conditions comprises determining period information from the periodic peaks.

6.   (Canceled)

7.   (Currently Amended) The method of claim 6 1 further comprising using the bandwidth information to set a control bandwidth output of a network node.

8.   (Original) The method of claim 7 wherein the control bandwidth output is set by adjusting inter-packet transmission times at the network node.

9.   (Original) The method of claim 8 further comprising adjusting the control bandwidth output in response to changing network congestion conditions.

10.   (Currently Amended) A method, comprising controlling inter-packet transmission times at a node of a communication network according to congestion conditions within the network, the congestion conditions being determining by measurement of packet round trip times within the network; organizing numbers of occurrences of the packet round trip time measurements as an invariant distribution; applying an analytical tool to the invariant distribution to derive a plot exhibiting periodic peaks, and extracting a bandwidth information regarding one or more congested links within the network from the periodic peaks.

11.   (Canceled)

12.   (Currently Amended) The method of claim 11 10 further comprising identifying bandwidth bottlenecks from the bandwidth information.

13.   (Original) The method of claim 12 wherein the inter-packet transmission times are controlled so as to provide a packet bandwidth approximately equal to a bandwidth of at least one of the bandwidth bottlenecks.

14.   (Canceled)

15.   (Previously Presented) The method of claim 10 wherein the analytical tool is selected from the list comprising a Fourier transform and a wavelet transform.

16.   (Previously Presented) A method comprising estimating congestion in a communication network from bandwidth bottleneck information obtained through a plot exhibiting periodic peaks, the plot derived from an invariant distribution of numbers of occurrences of measurements of packet round trip times within the network applied with an analytical tool.

17.   (Original) The method of claim 16 further comprising controlling packet transmissions from a node of the network according to the bandwidth bottleneck information.

18.   (Canceled)

19.   (Previously Presented) The method of claim 16 wherein the analytical tool is selected from the list comprising a Fourier transform and a wavelet transform.

20.   (Previously Presented) The method of claim 16 further comprising controlling inter-packet transmission times at a node of the network according to the bandwidth bottleneck information.